

OMRF 114 CIP2.ST25  
SEQUENCE LISTING

450590  
<110> Harley, John  
<120> Methods and Reagents for Diagnosis of Autoantibodies  
<130> OMRF 114 CIP (2)  
<140> 07/867,819  
<141> 1992-04-13  
<150> 07/472,947  
<151> 1990-01-31  
<150> 07/648,205  
<151> 1991-01-31  
<160> 161  
<170> PatentIn version 3.1  
J,  
<210> 1  
<211> 8  
<212> PRT  
<213> homo sapien  
<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site  
<400> 1

Gly Thr Phe Lys Ala Phe Asp Lys  
1 5

<210> 2  
<211> 15  
<212> PRT  
<213> homo sapien  
<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

OMRF 114 CIP2.ST25

<400> 2

Cys Asp Glu Phe Arg Lys Ile Lys Pro Lys Asn Ala Lys Gln Pro  
1 5 10 15

<210> 3

<211> 8

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 3

Arg Val Pro Leu Ala Gly Ala Ala  
1 5

<210> 4

<211> 17

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (4)..(11)

<223> Binding site

<400> 4

Ala Gly Gly Pro Gly Val Gly Arg Ala Ala Gly Arg Gly Val Pro Ala  
1 5 10 15

Gly

<210> 5

<211> 15

<212> PRT

60

f

OMRF 114 CIP2.ST25

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (7)..(14)

<223> Binding site

<400> 5

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Leu | Ala | Gly | Pro | Val | Arg | Gly | Val | Gly | Gly | Pro | Ser | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 6

<211> 12

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (3)..(10)

<223> Binding site

<400> 6

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gln | Val | Met | Thr | Pro | Gln | Gly | Arg | Gly | Thr | Val | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |

<210> 7

<211> 15

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (8)..(15)

<223> Binding site

<400> 7

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Thr | Gln | Tyr | Pro | Pro | Gly | Arg | Gly | Thr | Pro | Pro | Pro | Pro | Val |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

61

8

OMRF 114 CIP2.ST25

<210> 8  
 <211> 15  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(9)  
 <223> Binding site

<400> 8

Thr Pro Pro Pro Pro Val Gly Arg Ala Thr Pro Pro Pro Gly Ile  
 1 5 10 15

<210> 9  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 9

Pro Pro Pro Gly Ile Met Ala Pro  
 1 5

<210> 10  
 <211> 11  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (3)..(10)  
 <223> Binding site

<400> 10

Met Ala Pro Pro Pro Gly Met Arg Pro Pro Met

65

8

1 5 10

<210> 11  
<211> 16  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (5)..(12)  
<223> Binding site

<400> 11

Pro Ile Gly Leu Pro Pro Ala Arg Gly Thr Pro Ile Gly Met Pro Pro  
1 5 10 15

J, <210> 12  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 12

Pro Ile Gly Met Pro Pro Gly  
1 5

<210> 13  
<211> 11  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 13

Arg Pro Pro Pro Pro Gly Ile Arg Gly Pro Pro  
1 5 10

<210> 14

<211> 12

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (3)..(10)

<223> Binding site

<220>

<221> VARIANT

<222> (9)..(9)

<223> Can be R, F, G, H, I, K, S, T, V or Y

<400> 14

Arg Gly Pro Pro Pro Pro Gly Met Xaa Pro Pro Arg  
1 5 10

<210> 15

<211> 9

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 15

Thr Phe Lys Ala Phe Asp Lys His Met  
1 5

<210> 16

<211> 8

64

f

<212> PRT  
 <213> homo sapien  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 16

Glu Gly Pro Pro Pro Lys Asp Thr  
 1 5

<210> 17  
 <211> 8  
 <212> PRT  
 <213> homo sapien  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 17

Lys Asp Thr Gly Ile Ala Arg Val  
 1 5

<210> 18  
 <211> 10  
 <212> PRT  
 <213> homo sapien  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (3)..(10)  
 <223> Binding site

<400> 18

Ile Pro Gln Ala Pro Ala Gly Leu Ala Gly  
 1 5 10

65

8

OMRF 114 CIP2.ST25

<210> 19  
 <211> 18  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (4)..(16)  
 <223> Binding site

<400> 19

Gln Val Leu Asn Ile Gln Met Arg Arg Thr Leu His Lys Ala Phe Lys  
 1 5 10 15

Gly Ser

<210> 20  
 <211> 21  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (8)..(15)  
 <223> Binding site

<400> 20

Ile Cys His Gln Ile Glu Tyr Tyr Phe Gly Asp Phe Asn Leu Pro Arg  
 1 5 10 15

Asp Lys Phe Leu Lys  
 20

<210> 21  
 <211> 12  
 <212> PRT  
 <213> homo sapien



OMRF 114 CIP2.ST25

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(9)  
 <223> Binding site

<400> 21

Trp Val Pro Leu Glu Ile Met Ile Lys Phe Asn Arg  
 1 5 10

<210> 22  
 <211> 12  
 <212> PRT  
 <213> homo sapien

J, <220>  
 <221> MISC\_FEATURE  
 <222> (3)..(10)  
 <223> Binding site

<400> 22

Lys Thr Lys Ile Arg Arg Ser Pro Ser Lys Pro Leu  
 1 5 10

<210> 23  
 <211> 15  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 23

Asn Arg Leu Asn Arg Leu Thr Thr Asp Phe Asn Val Ile Val Glu  
 1 5 10 15

<210> 24  
 <211> 13

67

8

OMRF 114 CIP2.ST25

<212> PRT  
 <213> homo sapien  
 <220>  
 <221> MISC\_FEATURE  
 <222> (4)..(13)  
 <223> Binding site

<400> 24

Gly Glu Ile Lys Trp Ile Asp Phe Val Arg Gly Ala Lys  
 1 5 10

<210> 25  
 <211> 20  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (6)..(13)  
 <223> Binding site

<400> 25

Ser Leu Asn Lys Trp Lys Ser Lys Gly Arg Arg Phe Lys Gly Lys Gly  
 1 5 10 15

Lys Gly Asn Lys  
 20

<210> 26  
 <211> 12  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (5)..(12)  
 <223> Binding site

<400> 26

OMRF 114 CIP2.ST25

Gly Asn Leu Gln Leu Arg Asn Lys Glu Val Thr Trp  
1 5 10

<210> 27  
<211> 9  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (2)..(9)  
<223> Binding site

<400> 27

Ile Phe Val Val Phe Asp Ser Ile Glu  
1 5

<210> 28  
<211> 15  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (7)..(14)  
<223> Binding site

<400> 28

Lys Glu Thr Asp Leu Leu Ile Leu Phe Lys Asp Asp Tyr Phe Ala  
1 5 10 15

<210> 29  
<211> 17  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (9)..(16)  
<223> Binding site

<400> 29

Tyr Lys Asn Asp Val Lys Asn Arg Ser Val Tyr Ile Lys Gly Phe Pro  
1 5 10 15

Thr

<210> 30

<211> 9

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 30

Thr Asp Phe Asn Val Ile Val Glu Ala  
1 5

<210> 31

<211> 11

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 31

Glu Gly Ile Ile Leu Phe Lys Glu Lys Ala Lys  
1 5 10

<210> 32

<211> 14

OMRF 114 CIP2.ST25

<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (7)..(14)  
<223> Binding site

<400> 32

Lys Val Gln Phe Gln Gly Lys Lys Thr Lys Phe Ala Ser Asp  
1 5 10

<210> 33  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 33

Arg Glu Asp Leu His Ile Leu Phe  
1 5

<210> 34  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 34

Cys Leu Leu Lys Phe Ser Gly Asp  
1 5

OMRF 114 CIP2.ST25

<210> 35  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 35

Thr Gly Pro Val Lys Arg Ala Arg  
1 5

<210> 36  
<211> 10  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (3)..(10)  
<223> Binding site

<400> 36

Lys Val Glu Ala Lys Leu Arg Ala Lys Gln  
1 5 10

<210> 37  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 37

72

8

OMRF 114 CIP2.ST25

Met Asn Arg Leu His Arg Phe Leu  
1 5

<210> 38  
<211> 9  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (2)..(9)  
<223> Binding site

<400> 38

Leu Cys Phe Gly Ser Glu Gly Gly Thr  
1 5

<210> 39  
<211> 11  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 39

Ser Glu Gly Gly Thr Tyr Tyr Ile Lys Glu Gln  
1 5 10

<210> 40  
<211> 11  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (3)..(10)  
<223> Binding site

<400> 40

Glu Ile Lys Ser Phe Ser Gln Glu Gly Arg Thr  
1 5 10

<210> 41

<211> 9

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (2)..(9)

<223> Binding site

<400> 41

Ser Gln Glu Gly Arg Thr Thr Lys Gln  
1 5

<210> 42

<211> 9

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 42

Gly Arg Thr Thr Lys Gln Glu Pro Met  
1 5

<210> 43

<211> 12

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE



OMRF 114 CIP2.ST25

<222> (4)..(11)  
<223> Binding site

<400> 43

Ile Ser Thr Lys Gln Ala Ala Phe Lys Ala Val Ser  
1 5 10

<210> 44  
<211> 9  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 44

Ala Phe Lys Ala Val Ser Glu Val Cys  
1 5

<210> 45  
<211> 15  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (5)..(12)  
<223> Binding site

<400> 45

Phe Thr Phe Ile Gln Phe Lys Lys Asp Leu Lys Glu Ser Met Lys  
1 5 10 15

<210> 46  
<211> 10  
<212> PRT  
<213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(10)  
 <223> Binding site

<400> 46

Ser Met Lys Cys Gly Met Trp Gly Arg Ala  
 1 5 10

<210> 47  
 <211> 12  
 <212> PRT  
 <213> homo sapien

<400> 47

Gly Met Trp Gly Arg Ala Leu Arg Lys Ala Ile Ala  
 1 5 10

<210> 48  
 <211> 23  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (9)..(16)  
 <223> Binding site

<400> 48

Ala Leu Ala Val Thr Lys Tyr Lys Gln Arg Asn Gly Trp Ser His Lys  
 1 5 10 15

Asp Leu Leu Arg Leu Ser His  
 20

<210> 49  
 <211> 11  
 <212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (3)..(10)

<223> Binding site

<400> 49

Leu Leu Arg Leu Ser His Leu Lys Pro Ser Ser  
1 5 10

<210> 50

<211> 8

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 50

His Glu Leu Tyr Lys Glu Lys Ala  
1 5

<210> 51

<211> 9

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 51

Leu Tyr Lys Glu Lys Ala Leu Ser Val  
1 5

OMRF 114 CIP2.ST25

<210> 52  
 <211> 14  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (7)..(14)  
 <223> Binding site

<400> 52

Lys Ala Leu Ser Val Glu Thr Glu Lys Leu Leu Lys Tyr Leu  
 1 5 10

<210> 53  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 53

Lys Leu Leu Lys Tyr Leu Glu Ala  
 1 5

<210> 54  
 <211> 13  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (6)..(13)  
 <223> Binding site

<400> 54

Leu Glu Ala Val Glu Lys Val Lys Arg Thr Lys Asp Glu

78

f

1 5 10

<210> 55  
 <211> 22  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(14)  
 <223> Binding site

<400> 55

His Leu Leu Thr Asn His Leu Lys Ser Lys Glu Val Trp Lys Ala Leu  
 1 5 10 15

Leu Gln Glu Met Pro Leu  
 20

<210> 56  
 <211> 11  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Bindind site

<400> 56

Ala Leu Leu Arg Asn Leu Gly Lys Met Thr Ala  
 1 5 10

<210> 57  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE

OMRF 114 CIP2.ST25

<222> (1)..(8)  
<223> Binding site

<400> 57

Leu Gly Lys Met Thr Ala Asn Ser  
1 5

<210> 58  
<211> 17  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (6)..(15)  
<223> Binding site

<400> 58

Leu Cys Asn Glu Lys Leu Leu Lys Lys Ala Arg Ile His Pro Phe His  
1 5 10 15

Ile

<210> 59  
<211> 18  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (2)..(9)  
<223> Binding site

<400> 59

Thr Tyr Lys Thr Gly His Gly Leu Arg Gly Lys Leu Lys Trp Arg Pro  
1 5 10 15

80

8

Asp Glu

<210> 60  
 <211> 8  
 <212> PRT  
 <213> homo sapien  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 60

Ala Leu Asp Ala Ala Phe Tyr Lys  
 1 5

<210> 61  
 <211> 20  
 <212> PRT  
 <213> homo sapien  
  
 <220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 61

Ala Ala Phe Tyr Lys Thr Phe Lys Thr Val Glu Pro Thr Gly Lys Arg  
 1 5 10 15

Phe Leu Leu Ala  
 20

<210> 62  
 <211> 10  
 <212> PRT  
 <213> homo sapien  
  
 <220>

81

8

OMRF 114 CIP2.ST25

<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 62

Ala Ser Met Asn Gln Arg Val Leu Gly Ser  
1 5 10

<210> 63  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 63

Ala Met Cys Met Val Val Thr Arg  
1 5

<210> 64  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 64

Ala Phe Ser Asp Glu Met Val Pro  
1 5

<210> 65  
<211> 8  
<212> PRT

82

8



<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 65

Val Pro Cys Pro Val Thr Thr Asp

1 5

<210> 66

<211> 8

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 66

Val Leu Met Ala Met Ser Gln Ile

1 5

<210> 67

<211> 8

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 67

Thr Asp Cys Ser Leu Pro Met Ile

1 5

83

1

OMRF 114 CIP2.ST25

<210> 68  
 <211> 15  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (3)..(10)  
 <223> Binding site

<400> 68

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Ser | Leu | Pro | Met | Ile | Trp | Ala | Gln | Lys | Thr | Asn | Thr | Pro | Ala |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 69  
 <211> 10  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 69

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Phe | Ala | Gly | Gly | Val | His | Pro | Ala | Ile |
| 1   |     |     |     | 5   |     |     |     |     | 10  |

<210> 70  
 <211> 16  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (4)..(11)  
 <223> Binding site

<400> 70

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ala | Leu | Arg | Glu | Tyr | Arg | Lys | Lys | Met | Asp | Ile | Pro | Ala | Lys | Leu |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

84

f

1 5 10 15

<210> 71  
 <211> 16  
 <212> PRT  
 <213> homo sapien

<400> 71

Ile Val Thr Lys Tyr Ile Thr Lys Gly Trp Lys Glu Val His Glu Leu  
 1 5 10 15

<210> 72  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 72

Ala Leu Phe Ala Pro Arg Asp Pro  
 1 5

<210> 73  
 <211> 10  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 73

Glu Arg Met Glu Arg Lys Arg Arg Glu Lys  
 1 5 10

85

f

OMRF 114 CIP2.ST25

<210> 74  
 <211> 14  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(9)  
 <223> Binding site

<400> 74

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Met | Val | Tyr | Ser | Lys | Arg | Ser | Gly | Lys | Pro | Arg | Gly | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     |

<210> 75  
 <211> 15  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (6)..(13)  
 <223> Binding site

<400> 75

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Tyr | Lys | His | Ala | Asp | Gly | Lys | Lys | Ile | Asp | Gly | Arg | Arg | Val | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |

<210> 76  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 76

Val Glu Arg Gly Arg Thr Val Lys

86

8

1 5

<210> 77  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 77

Val Lys Gly Trp Arg Pro Arg Arg  
 1 5

<210> 78  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 78

Arg Arg Ser Arg Ser Arg Asp Lys  
 1 5

<210> 79  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

87

*[Handwritten signature]*

<400> 79

Arg Arg Arg Ser Arg Glu Arg Ser  
1 5

<210> 80

<211> 8

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

<223> Binding site

<400> 80

Ser Arg Glu Arg Ser Lys Asp Lys  
1 5

<210> 81

<211> 15

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (8)..(15)

<223> Binding site

<400> 81

Lys Asp Lys Asp Arg Asp Arg Lys Arg Arg Ser Ser Arg Ser Arg  
1 5 10 15

<210> 82

<211> 8

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (1)..(8)

88

8

<223> Binding site

<400> 82

Arg Arg Ser His Arg Ser Glu Arg  
1 5

<210> 83

<211> 9

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (2)..(9)

<223> Binding site

<400> 83

Asn Leu Asn Glu Lys Ile Lys Lys Asp  
1 5

<210> 84

<211> 10

<212> PRT

<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (2)..(9)

<223> Binding site

<400> 84

Ile Lys Lys Asp Glu Leu Lys Lys Ser Leu  
1 5 10

<210> 85

<211> 13

<212> PRT

<213> homo sapien

89

f

OMRF 114 CIP2.ST25

<220>  
<221> MISC\_FEATURE  
<222> (3)..(10)  
<223> Binding site

<400> 85

Leu Val Ser Arg Ser Leu Lys Met Arg Gly Gln Ala Phe  
1 5 10

<210> 86  
<211> 12  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (4)..(11)  
<223> Binding site

<400> 86

Gln Gly Phe Pro Phe Tyr Asp Lys Pro Met Arg Ile  
1 5 10

<210> 87  
<211> 9  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 87

Ile Ile Ala Lys Met Lys Gly Thr Phe  
1 5

<210> 88  
<211> 13

90

8



OMRF 114 CIP2.ST25

<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (3)..(10)  
<223> Binding site

<400> 88

Glu Arg Asp Arg Lys Arg Glu Lys Arg Lys Pro Lys Ser  
1 5 10

<210> 89  
<211> 9  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 89

Gln Glu Thr Pro Ala Thr Lys Lys Ala  
1 5

<210> 90  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 90

Ala Leu Gln Gly Phe Lys Ile Thr  
1 5

<210> 91  
<211> 9  
<212> PRT  
<213> homo sapien

OMRF 114 CIP2.ST25

<220>  
<221> MISC\_FEATURE  
<222> (2)..(9)  
<223> Binding site

<400> 91

Ala Met Lys Ile Ser Phe Ala Lys Lys  
1 5

<210> 92  
<211> 18  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (10)..(17)  
<223> Binding site

<400> 92

Ser Val Arg Lys Thr His Cys Ser Gly Arg Lys His Lys Glu Asn Val  
1 5 10 15

Lys Asp

<210> 93  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 93

Lys Asp Tyr Tyr Gln Lys Trp Met  
1 5

<210> 94  
<211> 9  
<212> PRT  
<213> homo sapien

92

k

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 94

Ala Phe Gln Gln Gly Lys Ile Pro Pro  
1 5

<210> 95  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 95

Lys Ile Pro Pro Thr Pro Phe Ser  
1 5

<210> 96  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 96

Pro Pro Pro Pro Ser Leu Pro Gly  
1 5

<210> 97

OMRF 114 CIP2.ST25

<211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 97

Ser Leu Pro Gly Pro Pro Arg Pro  
 1 5

<210> 98  
 <211> 10  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (2)..(9)  
 <223> Binding site

<400> 98

Gly Pro Pro Arg Pro Gly Met Met Pro Ala  
 1 5 10

<210> 99  
 <211> 8  
 <212> PRT  
 <213> homo sapien

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(8)  
 <223> Binding site

<400> 99

Pro Pro Pro Pro Gly Met Met Pro  
 1 5

94

8

<210> 100  
<211> 9  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 100

Gly Pro Ala Pro Gly Met Arg Pro Pro  
1 5

<210> 101  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 101

Pro Pro Met Met Arg Pro Pro Ala  
1 5

<210> 102  
<211> 8  
<212> PRT  
<213> homo sapien

<220>  
<221> MISC\_FEATURE  
<222> (1)..(8)  
<223> Binding site

<400> 102

95

k

Pro Gly Met Thr Arg Pro Asp Arg  
1 5

<210> 103  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 103

Ile Gly Thr Phe Lys Ala Phe Asp  
1 5

<210> 104  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 104

Asp Cys Asp Glu Phe Arg Lys Ile  
1 5

<210> 105  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 105

Pro Lys Asn Ala Lys Gln Pro Glu  
1 5

<210> 106  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 106

Met Pro Pro Pro Gly Met Arg Pro  
1 5

OMRF 114 CIP2.ST25

<210> 107  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 107

Gln Gln Val Met Thr Pro Gln Gly  
1 5

<210> 108  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 108

Gln Gly Arg Gly Thr Val Ala Ala  
1 5

<210> 109  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 109

Ala Pro Thr Gln Tyr Pro Pro Gly  
1 5

<210> 110  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 110

Gly Thr Pro Pro Pro Pro Val Gly  
1 5

<210> 111  
<211> 8  
<212> PRT

97

8

<213> homo sapien

<400> 111

Ile Met Ala Pro Pro Pro Gly Met  
1 5

<210> 112

<211> 8

<212> PRT

<213> homo sapien

<400> 112

Ile Gly Met Pro Pro Pro Gly Met  
1 5

<210> 113

<211> 8

<212> PRT

<213> homo sapien

<400> 113

Gly Met Pro Pro Pro Gly Met Arg  
1 5

<210> 114

<211> 8

<212> PRT

<213> homo sapien

<400> 114

Pro Pro Gly Met Arg Pro Pro Pro  
1 5

<210> 115

<211> 8

<212> PRT

<213> homo sapien

<400> 115

98

X



OMRF 114 CIP2.ST25

Met Arg Pro Pro Pro Pro Gly Ile  
1 5

<210> 116  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 116

Pro Ala Pro Gly Met Arg Pro Pro  
1 5

<210> 117  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 117

Pro Pro Pro Gly Met Ile Pro Pro  
1 5

<210> 118  
<211> 8  
<212> PRT  
<213> homo sapien

<400> 118

Met Pro Pro Pro Gly Met Arg Pro  
1 5

<210> 119  
<211> 6  
<212> PRT  
<213> homo sapien

<220>

<221> MISC\_FEATURE

<222> (5)..(5)

<223> Xaa at position 5 is an undetermined amino acid

<400> 119

Pro Pro Pro Gly Xaa Arg  
1 5

<210> 120

<211> 5

<212> PRT

<213> homo sapien

<400> 120

Pro Pro Pro Pro Pro  
1 5

<210> 121

<211> 8

<212> PRT

<213> homo sapien

<400> 121

Pro Gly Ile Arg Gly Pro Pro Pro  
1 5

<210> 122

<211> 8

<212> PRT

<213> Homo Sapien

<400> 122

Pro Pro Pro Gly Ile Arg Pro Pro  
1 5

<210> 123

<211> 8

<212> PRT

<213> Homo sapiens

<400> 123

Thr Phe Lys Ala Phe Asp Lys His  
1 5

100

8

<210> 124  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 124

Cys Asp Glu Phe Arg Lys Ile Lys  
1 5

<210> 125  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 125

Asp Glu Phe Arg Lys Ile Lys Pro  
1 5

<210> 126  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 126

Glu Phe Arg Lys Ile Lys Pro Lys  
1 5

<210> 127  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 127

Phe Arg Lys Ile Lys Pro Lys Asn  
1 5

<210> 128  
<211> 8

101

8

<212> PRT  
<213> Homo sapiens

<400> 128

Arg Lys Ile Lys Pro Lys Asn Ala  
1 5

<210> 129  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 129

Lys Ile Lys Pro Lys Asn Ala Lys  
1 5

<210> 130  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 130

Ile Lys Pro Lys Asn Ala Lys Gln  
1 5

<210> 131  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 131

Lys Pro Lys Asn Ala Lys Gln Pro  
1 5

<210> 132  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 132

102

8

Gln Val Met Thr Pro Gln Gly Arg  
1 5

<210> 133  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 133

Val Met Thr Pro Gln Gly Arg Gly  
1 5

<210> 134  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 134

Met Thr Pro Gln Gly Arg Gly Thr  
1 5

<210> 135  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 135

Thr Pro Gln Gly Arg Gly Thr Val  
1 5

<210> 136  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 136

Pro Gln Gly Arg Gly Thr Val Ala  
1 5

<210> 137  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 137

Pro Thr Gln Tyr Pro Pro Gly Arg  
1 5

<210> 138  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 138

Thr Gln Tyr Pro Pro Gly Arg Gly  
1 5

<210> 139  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 139

Tyr Pro Pro Gly Arg Gly Thr Pro  
1 5

<210> 140  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 140

Gln Tyr Pro Pro Gly Arg Gly Thr  
1 5

<210> 141  
<211> 8  
<212> PRT

<213> Homo sapiens

<400> 141

Pro Pro Gly Arg Gly Thr Pro Pro  
1 5

<210> 142

<211> 8

<212> PRT

<213> Homo sapiens

<400> 142

Pro Gly Arg Gly Thr Pro Pro Pro  
1 5

<210> 143

<211> 8

<212> PRT

<213> Homo sapiens

<400> 143

Gly Arg Gly Thr Pro Pro Pro Pro  
1 5

<210> 144

<211> 8

<212> PRT

<213> Homo sapiens

<400> 144

Arg Gly Thr Pro Pro Pro Pro Val  
1 5

<210> 145

<211> 8

<212> PRT

<213> Homo sapiens

<400> 145

185

8

Met Ala Pro Pro Pro Gly Met Arg  
1 5

<210> 146  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 146

Ala Pro Pro Pro Gly Met Arg Pro  
1 5

<210> 147  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 147

Pro Pro Pro Gly Met Arg Pro Pro  
1 5

<210> 148  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 148

Pro Pro Gly Met Arg Pro Pro Met  
1 5

<210> 149  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 149

Pro Pro Pro Gly Met Arg Pro Pro  
1 5

106

8



OMRF 114 CIP2.ST25

<210> 150  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 150

Arg Pro Pro Pro Pro Gly Ile Arg  
1 5

<210> 151  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 151

Pro Pro Pro Pro Gly Ile Arg Gly  
1 5

<210> 152  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 152

Pro Pro Pro Gly Ile Arg Gly Pro  
1 5

<210> 153  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 153

Pro Pro Gly Ile Arg Gly Pro Pro  
1 5

<210> 154  
<211> 8  
<212> PRT  
<213> Homo sapiens

187

X

<400> 154

Arg Gly Pro Pro Pro Pro Gly Met  
1 5

<210> 155

<211> 8

<212> PRT

<213> Homo sapiens

<400> 155

Gly Pro Pro Pro Pro Gly Met Arg  
1 5

<210> 156

<211> 8

<212> PRT

<213> Homo sapiens

<400> 156

Pro Pro Pro Pro Gly Met Arg Pro  
1 5

<210> 157

<211> 8

<212> PRT

<213> Homo sapiens

<400> 157

Pro Pro Pro Gly Met Arg Pro Pro  
1 5

<210> 158

<211> 8

<212> PRT

<213> Homo sapiens

<400> 158

Pro Pro Gly Met Arg Pro Pro Arg

108

8

1

5

<210> 159  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 159

Pro Pro Pro Gly Met Arg Pro .  
1 5

J,  
<210> 160  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 160

Pro Pro Pro Gly Met Arg  
1 5

<210> 161  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 161

Pro Pro Pro Gly Met  
1 5

---